



Topics

Autumn – Get Up, Stand Up

Spring – Creative Community

Summer – Tomorrow’s World

2024-25						
Autumn term		Spring term		Summer term		
1		2		1		
2		1		2		
Nursery	<ul style="list-style-type: none"> • Construction • Christmas decorations • To explore materials with different properties • Scissor skills 		<ul style="list-style-type: none"> • Construction • Occupations • Shrove Tuesday (pancakes) • Scissor skills 		<ul style="list-style-type: none"> • Construction • Scissor skills • Healthy foods 	
	<ul style="list-style-type: none"> • Cooking and Hygiene • Making instruments with junk modelling 		<ul style="list-style-type: none"> • Healthy Living - Healthy Meal Plates • Cooking (Jam Sandwiches, Flapjacks, Pancakes and Easter Bunny cakes/chick nest cakes) • Making The Bog Baby - bonding and sticking in various ways 		<ul style="list-style-type: none"> • Creating/making the farm of 'What the ladybird heard' so children can retell the story/roleplay. • Ladybird biscuits 	
Year 1	<p><u>Mechanisms (Levers and Sliders)</u> Plan, make and evaluate a product which moves – e.g. Moving puppet/picture animal using sliders and levers.</p>				<p><u>Textiles</u> Use materials to design appropriate clothing for a particular purpose. For example, design and make an umbrella or a raincoat for a character.</p> <p>Retrieval/review: Differences between materials (EYFS)</p>	<p><u>Cooking & Nutrition</u> Use the basic principles of a healthy and varied diet to prepare dishes. Begin to understand where food comes from. Plan and prepare a healthy, savoury playtime snack.</p>

Year 2		<p><u>Textiles (Binka Bookmarks)</u> Evaluate an existing product. Design and make a Christmas Decoration.</p> <p>Retrieval/review: Choosing of appropriate materials for the desired product, functional, appealing (Year 1)</p>	<p><u>Cooking & Nutrition</u> Use the basic principles of a healthy and varied diet to prepare dishes. Describe ingredients. Understand where food comes from. Make a salad.</p> <p>Retrieval/review: Where food comes from, hygiene, cut, peel, grate (Year 1)</p>		<p><u>Structures (Freestanding Structures)</u> Design new play equipment for our school playground (e.g. swings and slides) ensuring structures are made strong and stable.</p> <p>Retrieval/review: Joining different materials and making 'small worlds' (EYFS)</p>	
Year 3		<p><u>Textiles (Puppets)</u> Design using sketches & diagrams, make & evaluate a puppet.</p> <p>Retrieval/review: Running stitch, cut, shape, Ann Lowe, Thomas Stevens (Year 2)</p>		<p><u>Cooking & Nutrition</u> Design & make nutritious meals using a heat source (e.g. soup).</p> <p>Retrieval/review: What is a healthy meal? Cut, hygiene, peel, grate, Yotam Ottolenghi (Year 2)</p>		<p><u>Structures (Shell Structure)</u> Design and make packaging for an item to ensure it can be transported safely (e.g. a box for cookies). Use stiffening and strengthening techniques to make your packaging durable.</p> <p>Retrieval/review: How freestanding structures are made strong and stable, reinforce, strengthen, assemble, join, Isamu Noguchi (Year 2)</p>

Year 4		<p><u>Cooking & Nutrition</u> Design & make nutritious meals being safe and hygienic. Meals must be prepared using a heat source (e.g. paninis/hot sandwiches).</p> <p>Retrieval/review: How to safely use a heat source when cooking, peel, chop, slice, grate, mix, spread (Year 3)</p>		<p><u>Mechanisms (Levers and Linkages)</u> Design & make a moving picture which uses levers and linkages to help tell a story (e.g. The Iron Man).</p> <p>Retrieval/review: Sliders and levers, join, combine (Year 1)</p>	<p><u>Electrical Systems</u> Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Make a wire loop (buzzer) game using a circuit.</p>	
Year 5		<p><u>Structures (Frame Structures)</u> Architecture/civic planning in harmony with nature. Evaluate impact of design & technology on daily life & wider world. Design and make a model of an eco-friendly building using a frame structure.</p> <p>Retrieval/review: Strengthening and stiffening shell structures, corrugate, laminate, rib, reinforce, assemble (Year 3)</p>		<p><u>Cooking & Nutrition</u> Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. £2 challenge – design and make a healthy family meal for £2.</p> <p>Retrieval/review: Food hygiene (Year 4) What is nutrition? Hygiene, peel, chop, slice, grate, mix, spread (Year 3)</p>	<p><u>Mechanisms (Cams)</u> Use a cams mechanism to create a moving toy that is aimed at KS1 children.</p> <p>Retrieval/review: Levers and linkages, assemble, join, combine, input, process, output, pivot, linear, reciprocating, rotary, oscillating, Mary Anderson (Year 4)</p>	

3D Printing (CAD)

Program, make & evaluate a **key ring using the 3D printer**.
Use market research to form a design brief.

Cooking & Nutrition (Bread Making)

Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.
Cooking & nutrition – **baking bread** – yeast/micro-organisms.

Retrieval/review:
Budget and nutritional considerations when cooking, hygiene, peel, chop, slice, grate, mix, spread, knead, bake,
Miguel Barclay (Year 5)

Prop Design

Prop design: Use mechanical and electrical systems in a product. Test and evaluate own products.

Retrieval/review: Circuits, input, process, output,
Ann Makosinski (Year 4)